



ASHITI NARESH DHANANI

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PROFESSIONAL SUMMARY

Results-driven Engineer with hands-on experience in both embedded systems and full-stack web development using Python and Django. Adept at building scalable backend systems, designing RESTful APIs, and integrating complex data models. Recently built a full-featured Employee Management and Attendance System in Django, showcasing strong database design, authentication, and role-based dashboard features. Skilled in Python, Django, HTML/CSS, and MySQL, alongside embedded C and real-time protocol handling. Passionate about blending hardware-software systems and modern web technologies.

TECHNICAL SKILLS

Languages & Tools: Python, Django, Embedded C, C++, Shell Scripting

Web Technologies: HTML, CSS, JavaScript, Bootstrap, MySQL, SQLite

Frameworks: Django (with admin panel, models, views, templates, forms)

Microcontrollers: ARM7 (LPC2129), STM32

Protocols: UART, I2C, SPI, CAN, TCP/IP

Tools: Keil, Git, Linux, Oscilloscope

Operating Systems: Embedded Linux, FreeRTOS

Soft Skills: Problem-solving, communication, adaptability, time management

PYTHON/DJANGO PROJECTS

Employee Management & Attendance System (Developer | May 2025)

- Developed a Django web app to manage employee clock-ins/outs, leaves, project tracking, and role-based dashboards (Admin, Manager, Employee).
- Integrated authentication, dynamic forms, due date tracking, and a leave calendar.
- Utilized Django ORM, views, templates, and admin interface for efficient backend management.
- Tools: Python, Django, SQLite, HTML/CSS, Bootstrap, Git

EMBEDDED SYSTEM PROJECTS

RFID-Based Employee Attendance System (Developer | March 2024)

- Built an embedded system using UART and I2C protocols to track employee attendance via RFID and RTC modules.
- Implemented data logging and archival using Linux system programming.
- **Tools: Embedded C, LPC2129, UART0, RTC, Linux, GCC**

Vehicle Control System Using CAN Protocol (Developer | May 2024)

- Designed and implemented a CAN protocol-based communication system for vehicle indicators.
- Programmed on LPC2129 microcontroller to ensure real-time response.
- **Tools: ARM7, CAN, Embedded C, Keil**

OTHER PROJECTS

Travel Agency Website (Project Lead | April 2022)

- Created a responsive website with PHP backend and Bootstrap frontend.
- Managed a small team to deliver a client-ready booking platform.
- **Tools: PHP, MySQL, HTML, CSS**

PROFESSIONAL EXPERIENCE

Web Development Intern – Jemistry Info Solutions (Jan 2022 – Jul 2022)

- Improved website performance by 20% through code optimization and refactoring. Liaised with clients to gather requirements and implement functionality.
- Recognized as “Most Regular Intern” for punctuality and work ethic.

Video Editor (Part-Time) – Soyaf Digital Solutions (Jan 2023 – Jul 2023)

- Edited YouTube videos using Adobe Premiere Pro, maintaining brand consistency. Delivered projects within tight deadlines for clients in diverse domains.

EDUCATION

Bachelor of Engineering in Computer Engineering

SSAIET, Navsari – Gujarat Technological University

Graduated: 2022 | CGPA: 8.02/10